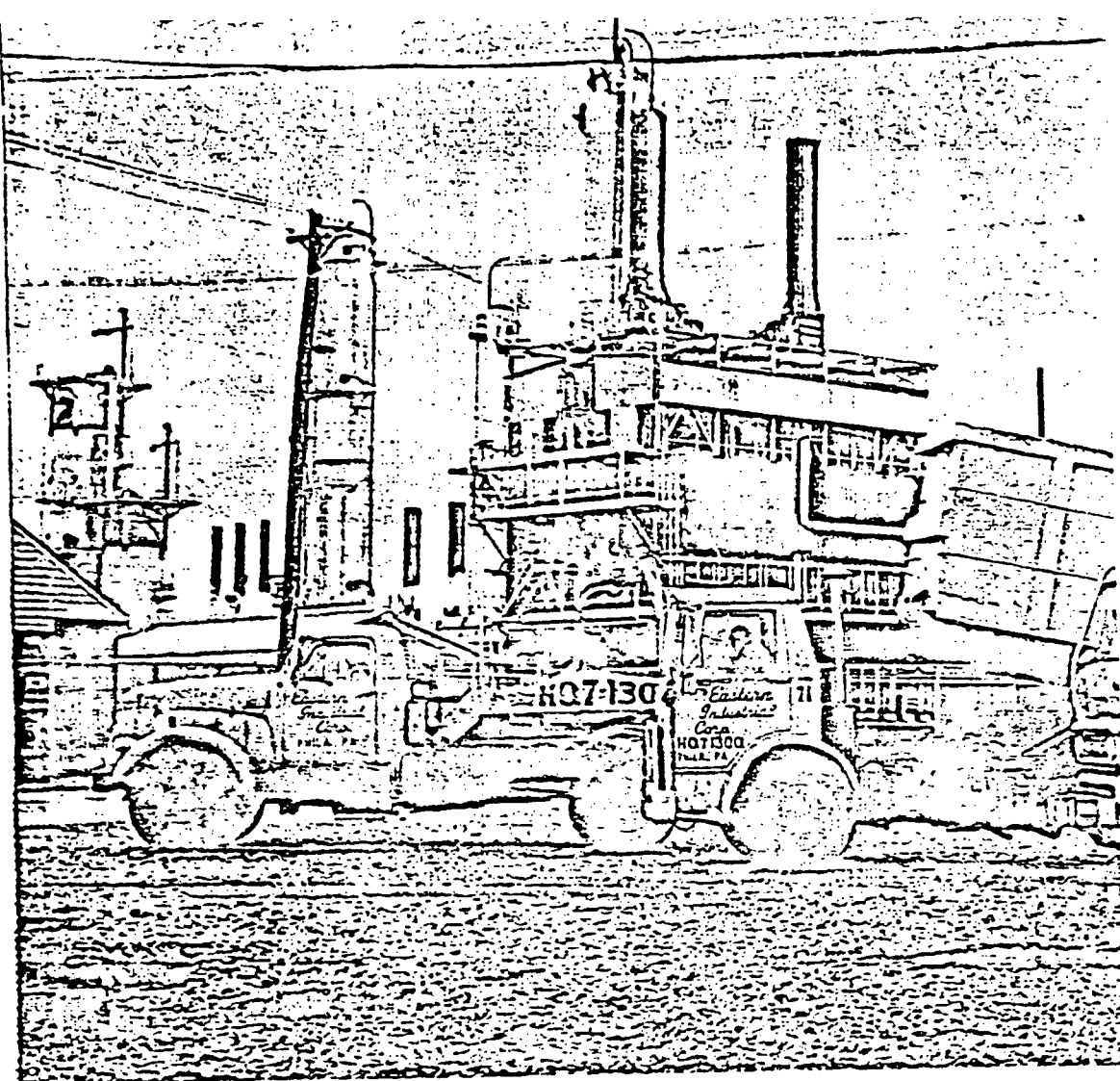




Scientific Chemical Treatment Co.: Improving the Industrial Environment

This unusual Delaware Valley firm provides an answer to one of our most urgent problems. Its million-dollar operations include industrial waste disposal services, sophisticated refining methods for processing chemical and industrial by-products, technical assistance, the design, engineering and construction of special equipment, and even market development for waste materials.



DELAWARE VALLEY INDUSTRY

DESPITE the numerous pressures on our industrialized society—population explosion, mass transportation, conservation of natural resources—one of the most fundamental and urgent problems is: what to do with the by-products and waste materials inherent in every industrial operation? This question affects all members of the industrial community, for it relates to our total environment. It is both a problem and a challenge. Confronted with the growing dangers of air and water pollution, the anticipation of government regulation, as well as loss of valuable materials through unprofitable waste-disposal methods, industry must find a solution. In Delaware Valley, one firm offers the most effective, imaginative, and extensive answer. This unique organization, headquartered in Elizabeth, New Jersey, is Scientific Chemical Treatment Co., Inc. It is a publicly held Delaware corporation whose stock is traded O.T.C.

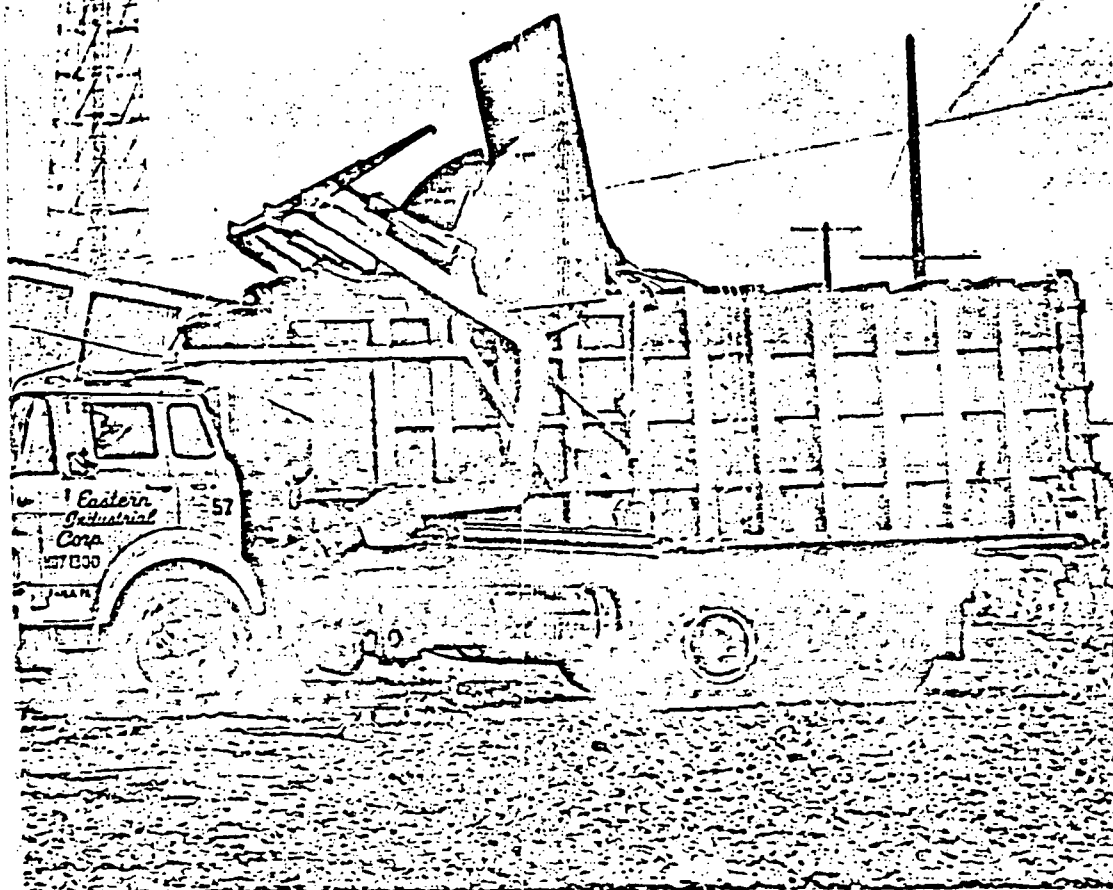
The corporate title hardly reflects the variety and complexity of Scientific's million-dollar operations.

"In simplest terms," says Scientific's Board Chairman, Dr. Marvin H. Mahan, "our organization buys, processes, and disposes of off-specification or contaminated chemical and industrial by-products. Industrial waste might be the most general definition. But it's a misleading one," he adds. "There is actually very little 'waste' if it's intelligently and scientifically processed."

Dr. Mahan is in a position to speak as one of the country's leading experts in the field. He is deeply involved in the engineering, scientific, and research aspects of the subject, and is currently a member of the New Jersey State Health Department's Task Force Committee, a blue-ribbon panel formed to study and recommend proper procedures for disposal and treatment of waste chemicals.

In its Elizabeth headquarters, Scientific is a nerve center for all its multifaceted operations throughout a service area covering both North and South Jersey, Eastern Pennsylvania, Delaware, and surrounding territory.

Leif R. Sigmond, Executive Vice



President, a chemical engineer grad of Lafayette, says, "We are unique, in that we not only have the experience and know how to make the proper and most economical recommendations to solve the client's waste problems; but we also design, engineer and construct specialized facilities to process the material either on the client's property, or at Scientific's facilities at Carlstadt, New Jersey. In some instances, special handling equipment to solve the problems of waste collection at the client's plant is engineered and constructed to facilitate bulk storage and efficient collection methods."

Scientific's experience and know how go back two decades.

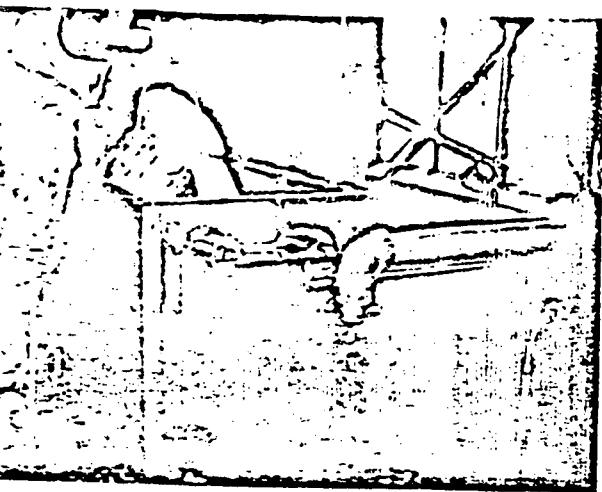
For example, the firm's Chemsol Marketing Division, formerly the R&D Branch of Chemsol, Inc., was formed in 1948 by Dr. Mahan himself. Its purpose was to do intensive research on chemical by-products and develop markets for them.

Today, Chemsol still concentrates primarily on market development for products recovered from "waste" mate-

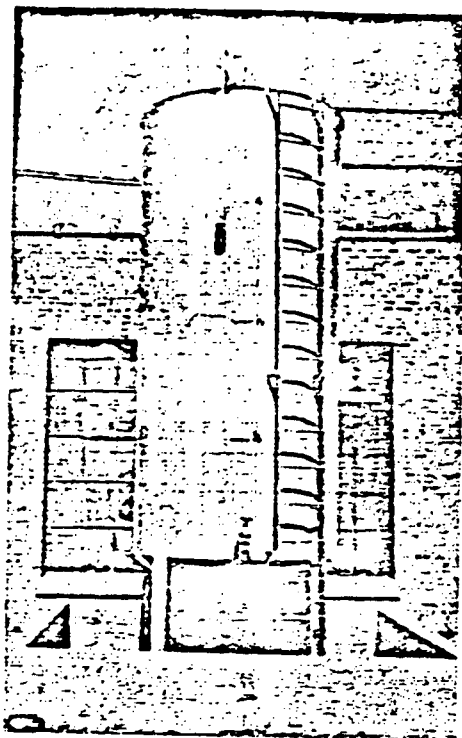
rials. The recovery process itself is mainly the responsibility of another Scientific division, North Jersey Refining Company.

Added to Scientific's corporate family as a wholly owned subsidiary in 1965, North Jersey Refining is the firm's actively functioning technological arm. Its operations are as complex as any in the processing industry. In addition to sophisticated distillation facilities with a capacity of better than 200,000 gallons, equipment includes a new phosphoric acid methanol recovery unit. The division is currently installing a new, highly advanced high and low temperature thin-film solvent recovery system, along with corrosion-resistant vacuum distillation columns. A brand new recovery unit for copper has just gone into operation.

The new facilities represent a significant step forward in the division's essential job: recovering valuable materials from used solvents and off-spec chemical by-products. North Jersey Refining buys its raw materials from industry, processes them, and with the



To eliminate drum handling, Scientific designed and constructed this specialized disposal unit in the Continental Can Company's plant. This special unit solves the problems of storage of waste materials, eliminates large numbers of drums, saves many man hours, and facilitates collection by Scientific's special tank trucks. Costs of the installation are on a lease basis or amortized over a period of time with the client eventually becoming the owner of the equipment.



help of the marketing division sells them to users throughout the country. But the greater portion of its work is done for customers who furnish the material themselves, re-use it in their own operations, and pay for distillation services on a fee basis.

Raymond A. Murray, Scientific's General Manager, Operations and Sales, says, "We are actually working seven days a week to keep pace with the expanding technology in waste and by-product conversion. The need for Scientific's services is becoming more pressing every day. We are constantly expanding our proven techniques along with testing new methods for the safe and efficient handling of all industrial waste and by-products. Our knowledge of Federal, State and Local Government regulations assures our clients of the safe and proper disposal of ordinary waste as well as the special handling necessary

for the disposal of hazardous chemicals and solids. Our unique specialized service for the custom disposal of small-lot hazardous materials is a boon for the many research and development organizations throughout the Delaware Valley area, especially where they do not have the dollars or manpower available to solve these important problems."

Landfill and refuse disposal are still other facets of the Scientific complex. In 1966, the company formed another wholly owned subsidiary, Kin Buc, Inc. Kin Buc operates a huge disposal facility in Edison, New Jersey, and handles refuse from 13 different communities in Central Jersey.

But the newest acquisition of Scientific services is Eastern Industrial Corp., headquartered at 3320 South 20th Street, in Philadelphia.

Added to the corporate structure in October, 1967, Eastern Industrial prom-

ises to be one of the fastest growing of the firm's divisions, and one for which a need has never been greater.

Since 1958, Eastern Industrial has specialized in industrial waste removal. Operating throughout the Philadelphia metropolitan area, Eastern Pennsylvania, Southern New Jersey, and Delaware, Eastern Industrial handles the direct collection and disposal of industrial waste.

"We serve almost every type of industry, commercial enterprise or institution," says James J. McDermott, Eastern's Manager. "Generally, industry simply doesn't have the personnel, know how, equipment, or money to handle the tremendous job of waste disposal. Don't forget," he adds, "that Delaware Valley is the most highly industrialized region in the country. In pure volume alone, the problem of waste disposal just in this area is tremendous. More and more firms are turning to us for specialized professional help. And they are getting it."

Eastern Industrial clearly demonstrates Dr. Mahan's statement that there is little waste in industrial waste. Eastern is well equipped to handle most of its own inspection and recovery operations and it boasts collection and disposal facilities to meet whatever job is demanded.

Eastern makes available an entire fleet of some 20 mammoth trucks, all designed for their specialized work. They operate on a schedule best fitted to customer needs, with collection hours scheduled in advance. Keeping the trucks on the job, where and when they're needed, is a continuing task for Eastern's dispatch sections.

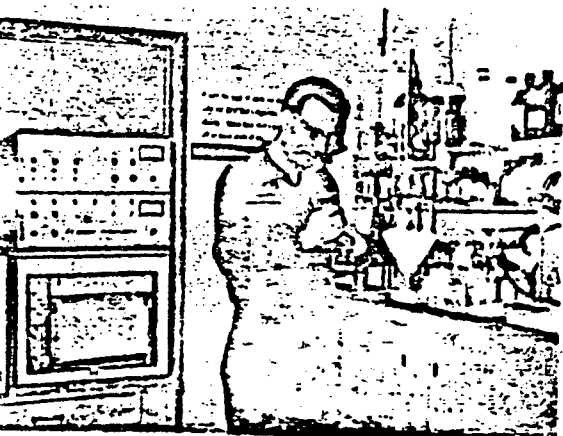
Eastern is also alert to the growing need for containerization as a means to rapid, efficient handling. Current facilities include more than 600 different sizes and types of containers, ranging in size from one yard to 40 yards.

The addition of Eastern Industrial is one more example of Scientific's policy of helping industry meet the waste disposal challenge by providing continually improved and expanded services.

"For the future," says Dr. Mahan, "we will concentrate even more on the recovery of chemicals as an essential means of reducing air and water pollution. Chemical solvents and hydrocarbons responsible for much of the industrial smog problems will be recovered and re-used in paint and lacquer thinners. Petrochemicals will be reprocessed and treated to eliminate air pollution.

"Industry has realized," he continues, "that waste must be disposed of scientifically, through facilities such as ours. It's no longer possible for waste simply to be burned or thrown away.

"After all," Dr. Mahan adds, "that would be a real waste."



Fully equipped laboratory for quality control and investigation of waste materials in conversion and safe destruction of waste by-products.